

GRADE 3 SCIENCE

ACHIEVEMENT

TEST



Alberta

EDUCATION

40900

DO NOT WRITE IN THIS AREA

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3054
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1983

CURR HIST

DIRECTIONS:

Please read each question carefully.

Choose the answer you think is correct.

Use **ONLY** an HB pencil to mark your answers.

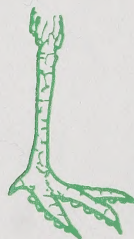
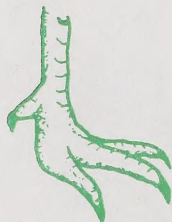
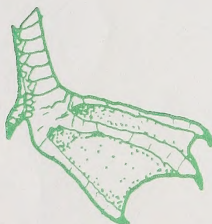
Mark the answer by filling in the circle underneath,
or in front of, the correct answer.

Mark only **ONE** answer for each question.

If you change an answer, erase your first mark completely.

EXAMPLE ONE

Which foot is best for swimming?



The answer in this example is the first foot. The circle underneath the correct answer has been filled in.

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EXAMPLE TWO

- ☐ is yellow
- ☐ is sour
- ☐ has seeds
- ☐ is lumpy

Which one of these is NOT a liquid?



The third object (the chocolate bar) is not a liquid.

The circle in front of the chocolate bar has been filled in.

PART A, SECTION 1

You have 25 minutes to complete this section.

Now you try the other questions.

Go to the next page or go to the next page

1. By tasting, you can tell that a lemon

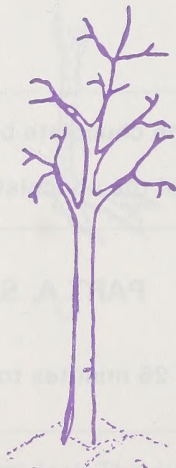
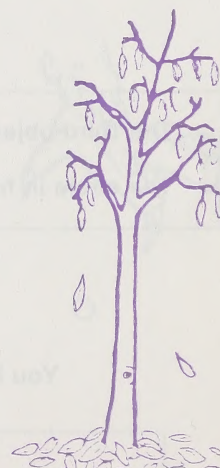


- ☐ is yellow
- ☐ is sour
- ☐ has seeds
- ☐ is bumpy

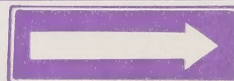
2. Sue has a tree in her yard.

In January it looks like


☐

☐

☐

☐

Go on to the next page



3. Look at this picture.



The best **OBSERVATION** is that Roy

- ☐ is holding a spoon with something in the spoon
- ☐ is holding powder from the box in the spoon
- ☐ is taking powder from the measuring cup
- ☐ is making a cake with a cake mix

Go on to the next page

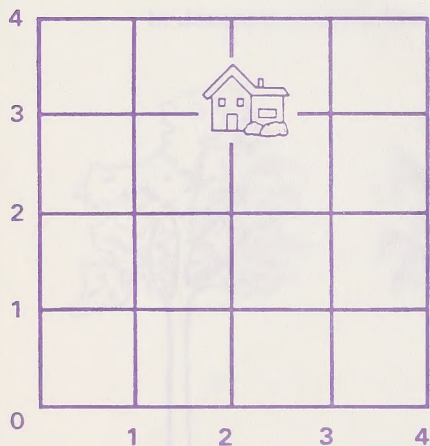
4. Here is Sharon's plant.



Which of these sentences is true right now?

- ☐ Sharon's plant will be very tall.
- ☐ Sharon's plant has three leaves.
- ☐ Sharon's plant has pink flowers.
- ☐ Sharon's plant will become a tree.

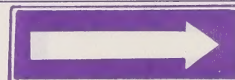
5. Look at the chart.



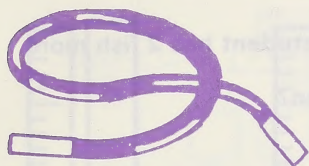
The house is

- ☐ 3 over and 2 up
- ☐ 2 over and 1 up
- ☐ 1 over and 2 up
- ☐ 2 over and 3 up

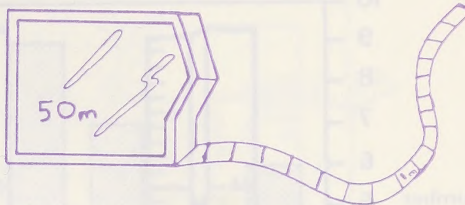
Go on to the next page



6. What would be BEST to use to measure the LENGTH of your school yard?



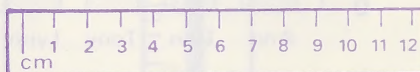
☐ skipping rope



☐ measuring tape

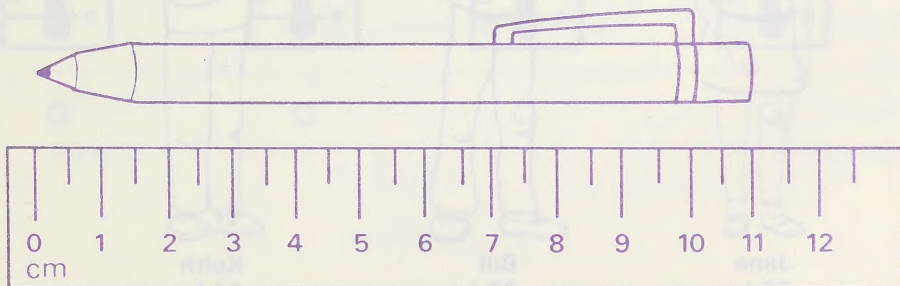


☐ paper clips



☐ ruler

7. Look at the picture.



The length of the pen is

☐ 10 cm

☐ 11 cm

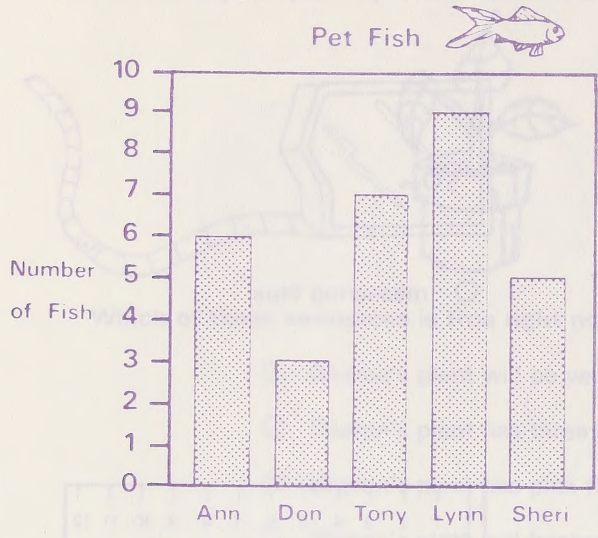
☐ 12 cm

☐ 13 cm

Go on to the next page



8. Look at the graph.



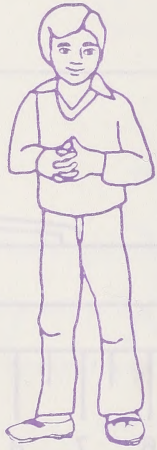
Which student has 2 fish more than Don?

- ☐ Ann
- ☐ Tony
- ☐ Lynn
- ☐ Sheri

9. This is how much each child weighs.



Jane
36 kg



Bill
35 kg



Keith
34 kg

Pick the order from lightest to heaviest.

- ☐ Keith Bill Jane
- ☐ Bill Jane Keith
- ☐ Jane Keith Bill
- ☐ Jane Bill Keith

Go on to the next page



10. Which thermometer shows 36°C ?

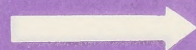

☐

☐

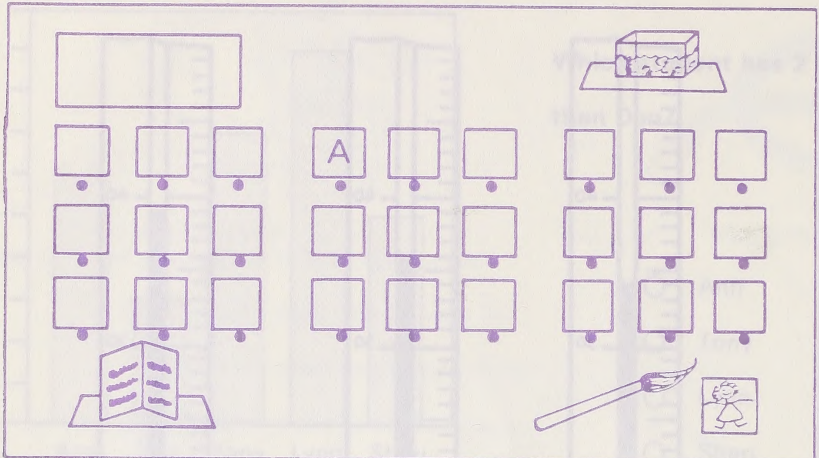
☐

☐

Go on to the next page



11. Look at the map of Andy's classroom.



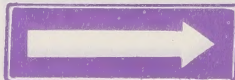
These are the symbols used in the map.

Teacher's desk		Andy's seat		Art centre	
Science centre		Reading centre			

Andy sits closest to

- ☐
- ☐
- ☐
- ☐

Go on to the next page



12. Look at these pictures.



1



2



3



4

Pick the order that shows the growth of the frog.

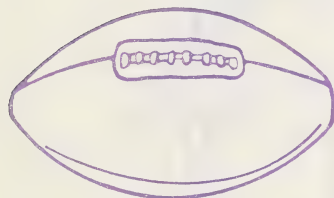
☐ 4, 3, 2, 1

☐ 4, 1, 3, 2

☐ 3, 1, 4, 2

☐ 1, 2, 3, 4

13. Look at these objects.



football



baseball



basketball



hockey puck

How are they ALL alike?

☐ They all have the same shape.

☐ They are all hit with a stick.

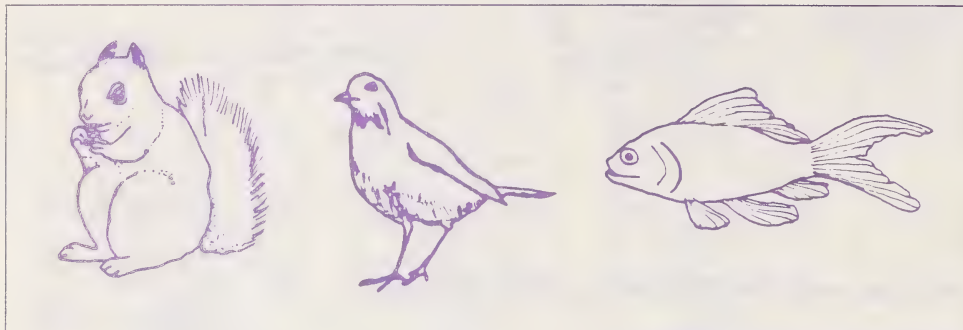
☐ They are all used in games.

☐ They all bounce equally well.

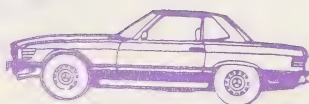
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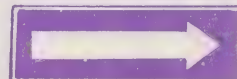
14. Look at the group of things in the box.



Which of the things below belongs with the group in the box?

☐☐☐☐

Go on to the next page



15. Look at this picture.



Which group does this living thing belong to?

☐



☐



☐



☐



Go on to the next page



16. Look at the pictures of make-believe pond water creatures.

These are zonks.



NONE of these is a zonk.



Which of these is a zonk?



Go on to the next page



17. Look at the pictures.



These four pictures show

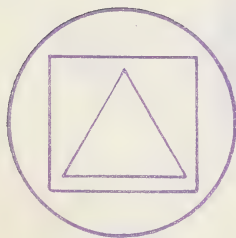
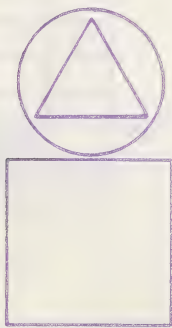
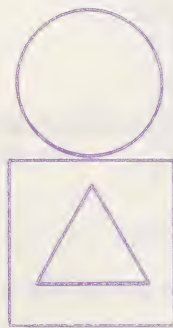
- ☐ heat and light
- ☐ heat and sound
- ☐ light and sound
- ☐ sound and color

18. Jan drew a circle in the centre of her paper.

Under the circle she drew a square.

Inside the square she drew a triangle.

Which of these is Jan's drawing?


☐

☐

☐

☐

Go on to the next page



19. The chart shows what four students do after school.

Activity

Name	Piano Lessons	Brownies	Cubs	Swimming
Bob	X		X	
Joan	X			X
Beth		X		X
Jim	X		X	X

What does this chart tell you?

- ☐ Bob and Jim both take piano lessons, belong to Cubs, and go swimming.
- ☐ Beth does not go swimming.
- ☐ Joan and Beth both belong to Brownies.
- ☐ Bob, Joan, and Jim all take piano lessons.

Go on to the next page



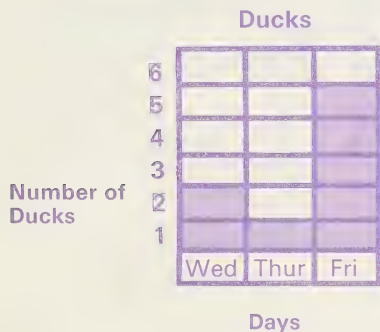
20. It is the fall season of the year.

On Wednesday Dena saw 2 ducks.

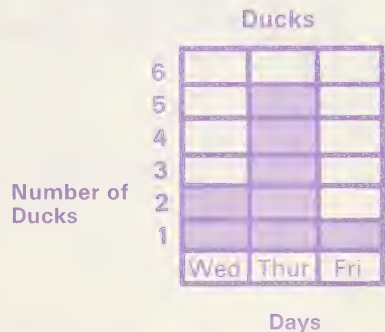
On Thursday she saw 5 ducks.

On Friday she saw 1 duck.

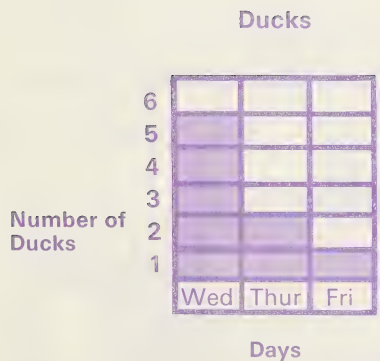
Which graph shows the number of ducks Dena saw?



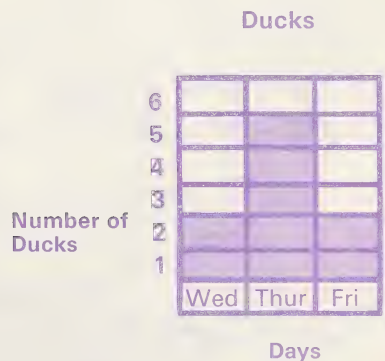
☐



☐



☐



☐

Go on to the next page



21. Inside a paper bag are two small things.

When Carrie shakes the bag, she hears only the sound of paper.



When Carrie opens the bag, she might find

☐  2 cotton balls

☐  2 erasers

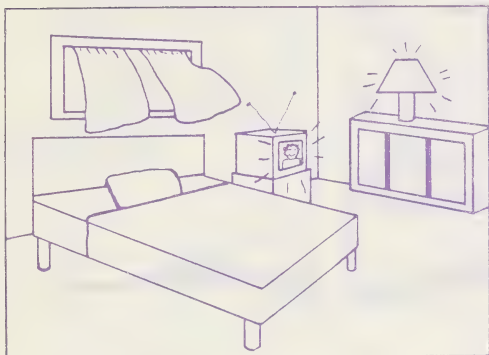
☐  2 marbles

☐  2 small stones

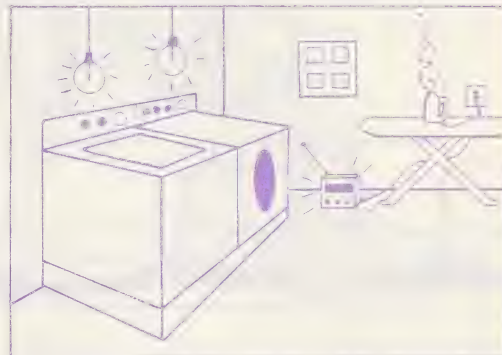
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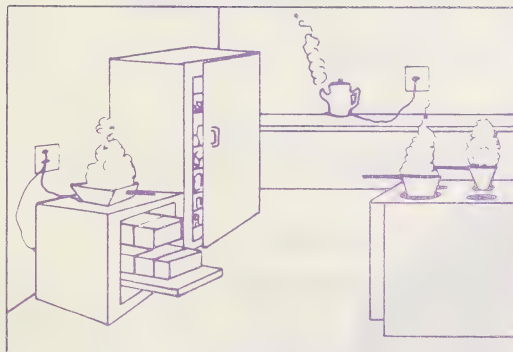
22. Which picture shows energy being saved?



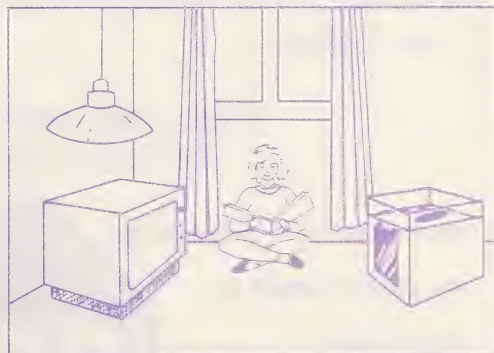
☐ bedroom



☐ laundry room



☐ kitchen



☐ living room

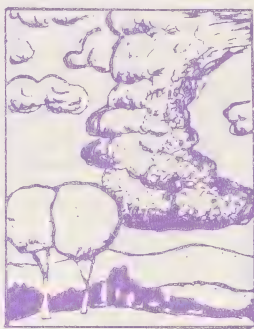
Go on to the next page



23. It is summertime.

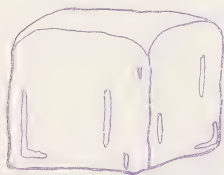
Which clouds would you expect to see during a thunderstorm?


☐

☐

☐

☐

24. Look at the pictures.



Ice cube



Ice cream



What happens if these things
are slowly heated for
20 minutes?

- ☐ They melt.
- ☐ They disappear.
- ☐ They become hard.
- ☐ They stay the same.

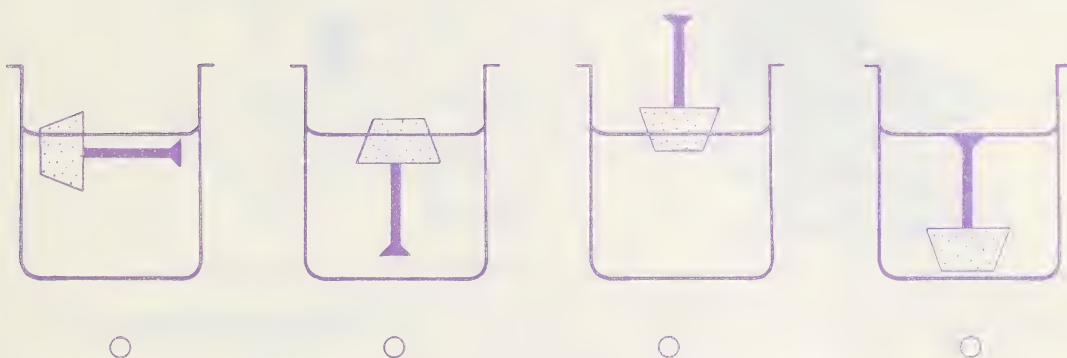
Go on to the next page



25. Tim pushed a nail into the centre of a cork.

Then he placed the cork in a glass of water.

Which picture shows what would likely happen?



END OF PART A, SECTION 1

YOU MAY GO BACK AND CHECK YOUR ANSWERS
TO PART A, SECTION 1, QUESTIONS 1 TO 25

DO NOT TURN THE PAGE UNTIL YOUR
TEACHER TELLS YOU TO DO SO



PART A, SECTION 2

You have 25 minutes to complete this section.

26. By touching this plant you can tell that it is



- ☐ green
- ☐ heavy
- ☐ prickly
- ☐ tasty

27. What is happening in the picture?



- ☐ John is blowing up the balloon.
- ☐ The balloon will burst.
- ☐ John is having a birthday party.
- ☐ The balloon will get bigger.

Go on to the next page



28. Which sense is Patricia most likely using?



- ☐ smelling
- ☐ touching
- ☐ tasting
- ☐ hearing

29. Look at the picture.



The best **OBSERVATION** to be made from the picture is that

- ☐ someone has just lit a match to light a candle
- ☐ the hand is holding a match that is burning
- ☐ someone is preparing to light a campfire
- ☐ the hand is about to be burned by the match

Go on to the next page



30. Pete went on a ladybug hunt in the woods.

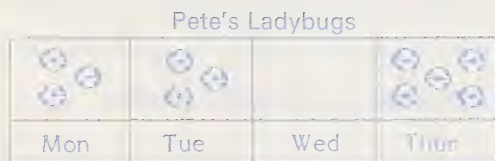
On Monday Pete caught 5 ladybugs.

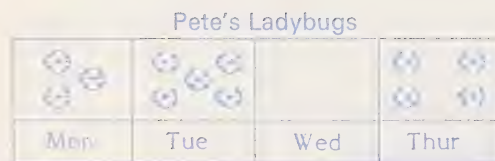
On Tuesday Pete caught 3 ladybugs.

On Wednesday Pete caught no ladybugs.

On Thursday Pete caught 4 ladybugs.

Which chart shows how many ladybugs Pete caught on these four days?


☐

☐

☐

☐

Go on to the next page



31. Study the chart.

	Comics	Library Books
Hal		
Mary		 
Dave	  	
Ruth		   

What does this chart tell you?

- ☐ Mary read one comic and no library books.
- ☐ Mary read three comics and three library books.
- ☐ Dave read three comics and no library books.
- ☐ Dave read one comic and four library books.

32. Look at the picture.



What did this animal look like when it was young?


☐

☐

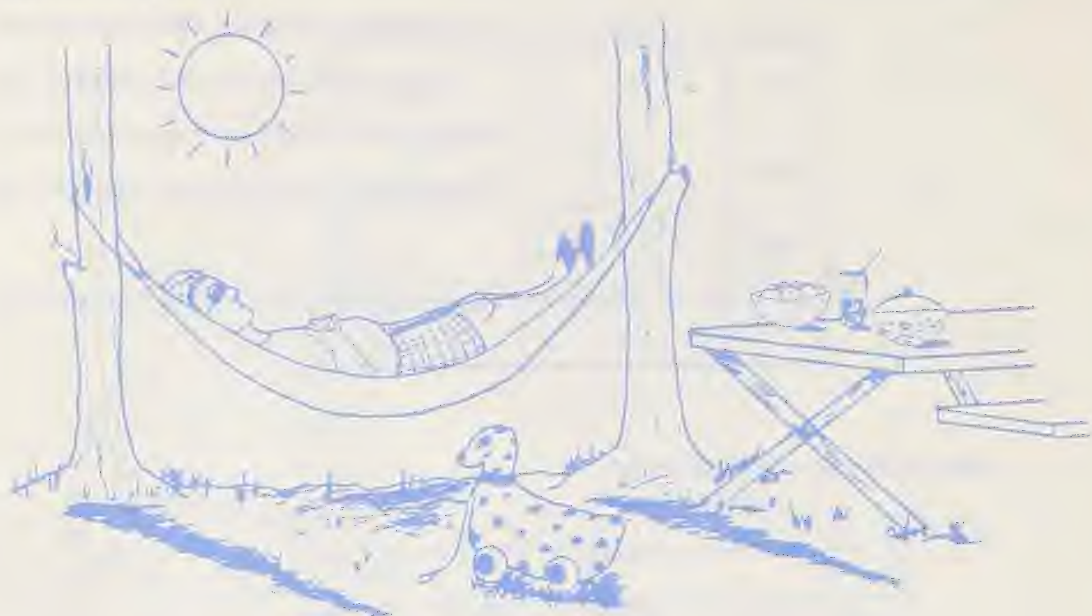
☐

☐

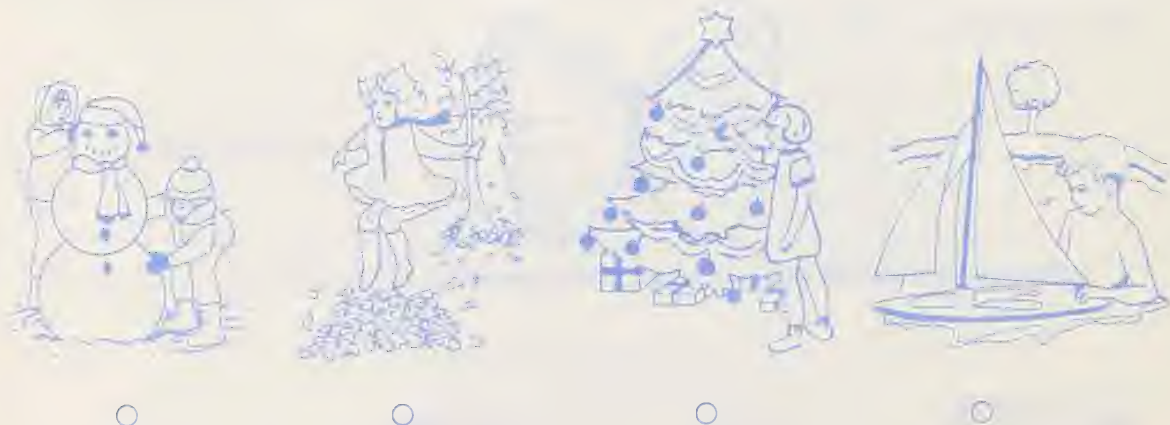
Go on to the next page



33. Look at the picture.



What would you most likely be doing in this season of the year?



Go on to the next page



34. Look at the pictures of make-believe animals.

These are marshens.



NONE of these is a marshen.



Which of these is a marshen?



Go on to the next page



35. Look at these objects.



The object that is in the centre
of the table is

- ☐ the rectangular block
- ☐ the cube
- ☐ the cone
- ☐ the oval

36. Here are four plants.



fern



daisy



mushroom



tulip

Which two are most similar to look at?

- ☐ fern and tulip
- ☐ mushroom and daisy
- ☐ tulip and daisy
- ☐ fern and mushroom

Go on to the next page



37. Which one does NOT belong?



38. Look at the pictures.



penny



spoon



paper clip



needle

The objects are all
alike because

- ☐ they are all soft to touch
- ☐ they all hold paper together
- ☐ they can all be held in a hand
- ☐ they can all be picked up by a magnet

Go on to the next page



39. Kathy wants to find out what her weight is.

Which of these would she use?



spring balance



bathroom scales



balance



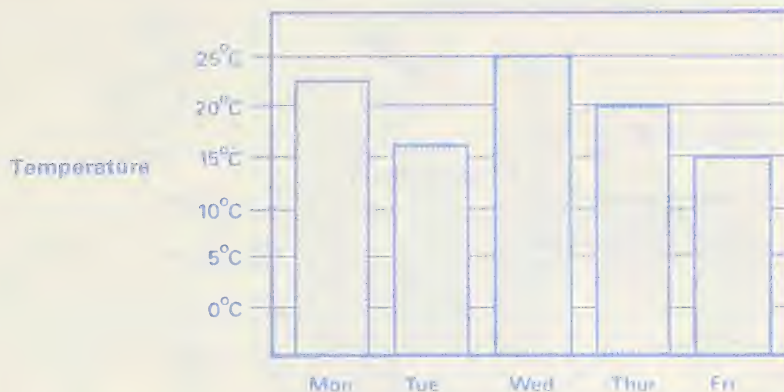
grocery store scale

Go on to the next page



40. The temperature was taken every day and marked on the chart.

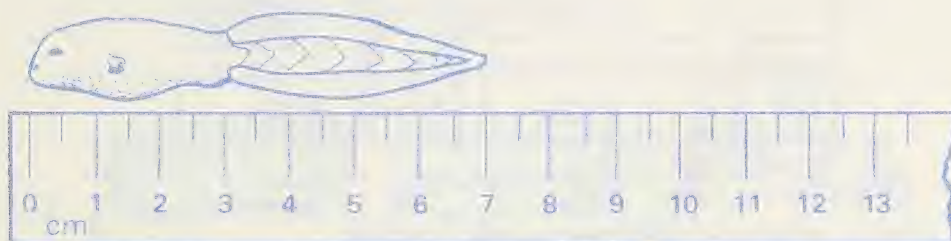
Temperature Chart



Which sentence is true?

- ☐ The lowest temperature was taken on Thursday.
- ☐ The highest temperature was taken on Friday.
- ☐ The temperature was lower on Monday than on Friday.
- ☐ The temperature was higher on Thursday than on Tuesday.

41. Look at the picture.



The length of the tail on the tadpole is

- ☐ 2 cm
- ☐ 3 cm
- ☐ 4 cm
- ☐ 7 cm

Go on to the next page



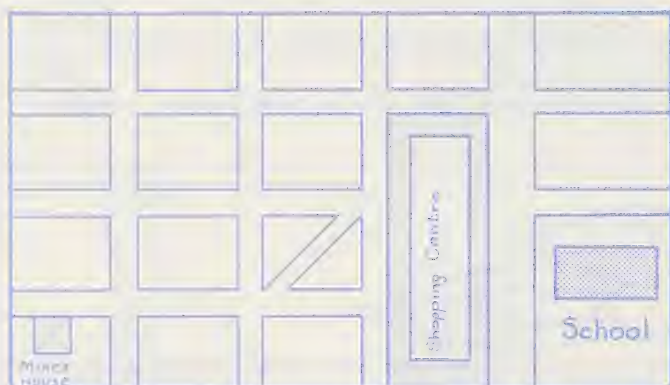
42. Look at this bolt.

Without using a ruler, guess how long it is.



- ☐ 1 cm
- ☐ 3 cm
- ☐ 5 cm
- ☐ 10 cm

43. Look at the map.



Mike wants to know how far he has to walk to school.

The distance Mike walks to school is BEST measured in

- ☐ centimetres
- ☐ pencil lengths
- ☐ kilograms
- ☐ kilometres

Go on to the next page



44. The groups of pictures below show different kinds of changes.



Which change would be easiest to change BACK?

- ☐ melting
- ☐ burning
- ☐ rusting
- ☐ rotting

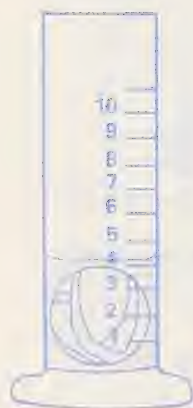
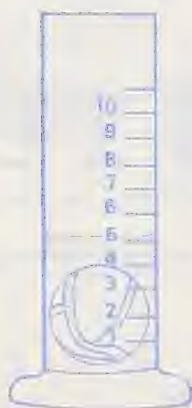
Go on to the next page



45. Look at this picture.



What will happen when the marble is added to the water?

☐☐☐☐

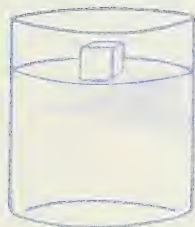
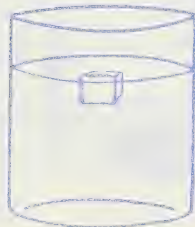
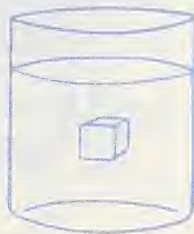
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46. Ice cubes are made by freezing water.

An ice cube is placed in a glass of cold water.

How far will it sink?


☐

☐

☐

☐

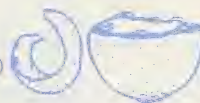
47. At the end of a picnic the garbage was buried in the ground.

Several years later it was dug up.

The garbage that is most likely to stay the same is

☐


a plastic cup

☐


an orange peel

☐


a paper plate

☐


an egg shell

Go on to the next page



48. Look at this picture.



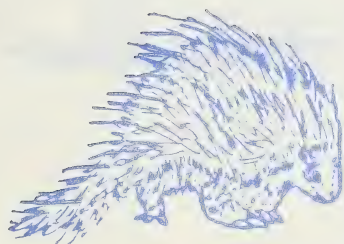
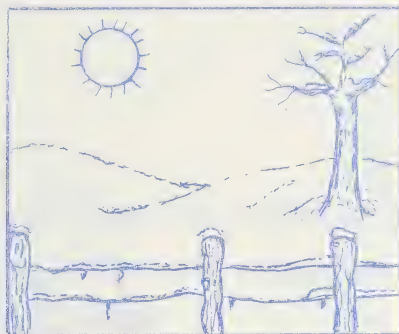
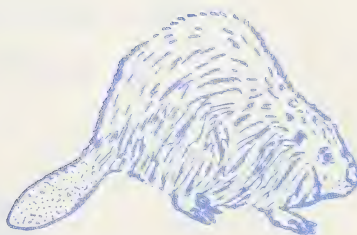
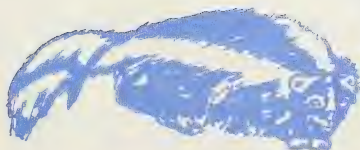
What could most likely be said about it?

- ☐ Tom smashed his bike with a hammer.
- ☐ Tom didn't put his bike away last night.
- ☐ Tom will be happy when he sees his bike.
- ☐ Tom will be riding his bike to school today.

Go on to the next page



49. Which animal would be hardest to see in a snowy field?

☐☐☐☐

Go on to the next page



50. Look at the pictures.



What has happened?

- ☐ The children were not helping to pick up the picnic things.
- ☐ The family is leaving because rain clouds are coming.
- ☐ The family has finished eating the picnic lunch.
- ☐ The family did not pick up the empty bottles.

END OF PART A, SECTION 2

YOU MAY GO BACK AND CHECK YOUR ANSWERS
TO PART A, SECTION 2, QUESTIONS 26 TO 50

DO NOT TURN THE PAGE UNTIL YOUR
TEACHER TELLS YOU TO DO SO



**DO NOT MAKE
ANY MARKS
ON THIS PAGE**

PART B ATTITUDE SURVEY

The next part of the test is made up of 15 questions.

THESE QUESTIONS HAVE NO CORRECT ANSWERS. THE ANSWERS WILL BE YOUR OPINIONS.

Read each statement silently, as your teacher reads each statement out loud.
Pick the answer that seems to say what you think and feel about the idea.

The choices for each statement are:

- I agree
- I am not sure
- I disagree
- I do not care

Be sure to mark only ONE answer for each statement.
If you change an answer, erase your first mark completely.
REMEMBER, mark only ONE answer for each question.

EXAMPLE

I want to become a scientist when I grow up.

I agree

I am not sure

I disagree

I do not care



☐



☐



☐



☐

- a) If you want to be a scientist when you grow up, then mark the circle under **I agree**.
- b) If you do not know whether you want to be a scientist when you grow up, then mark the circle under **I am not sure**.
- c) If you do not want to be a scientist when you grow up, then mark the circle under **I disagree**.
- d) If you do not care about being a scientist when you grow up, then mark the circle under **I do not care**.

Answer each statement after your teacher has read the statement to you.

1. I like learning in school.

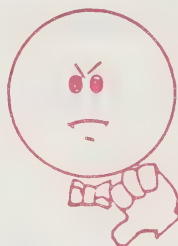
I agree


☐

I am not sure


☐

I disagree


☐

I do not care


☐

2. I like to learn about science.

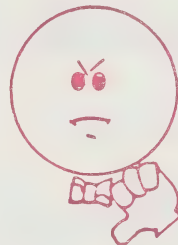
I agree


☐

I am not sure


☐

I disagree


☐

I do not care


☐

3. Science ideas are interesting.

I agree


☐

I am not sure


☐

I disagree


☐

I do not care


☐

Go on to the next page

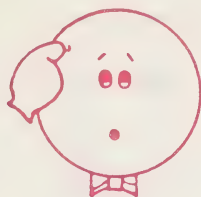


4. Science is very important.

I agree

☐

I am not sure

☐

I disagree

☐

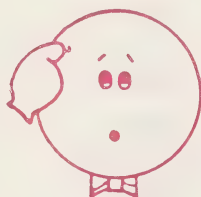
I do not care

☐**5. Science is too difficult for most people to understand.**

I agree

☐

I am not sure

☐

I disagree

☐

I do not care

☐**6. Doing science gives me a chance to think like a scientist.**

I agree

☐

I am not sure

☐

I disagree

☐

I do not care

☐

Go on to the next page



7. I like to watch science programs on television.

I agree


☐

I am not sure


☐

I disagree


☐

I do not care


☐

8. I like to read science magazines.

I agree


☐

I am not sure


☐

I disagree


☐

I do not care


☐

9. I would like to learn more about the environment.

I agree


☐

I am not sure


☐

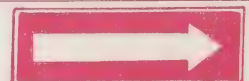
I disagree


☐

I do not care


☐

Go on to the next page



10. I think about what my environment will be like when I grow up.

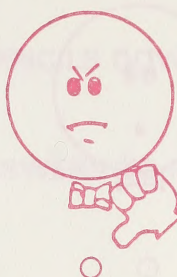
I agree



I am not sure



I disagree



I do not care



11. We should use less energy so that there will be more to share with others.

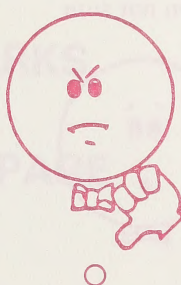
I agree



I am not sure



I disagree



I do not care



12. Saving paper, bottles, and cans is worth the time and effort it takes.

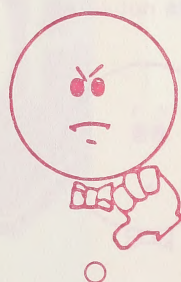
I agree



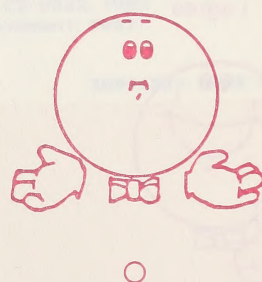
I am not sure



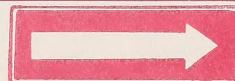
I disagree



I do not care



Go on to the next page



13. I always put candy wrappers in the garbage.

I agree

I am not sure

I disagree

I do not care


☐

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☐

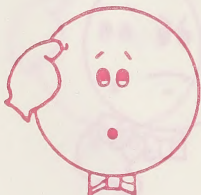
14. Since there are many kinds of animals and plants, we should not worry if a few kinds die out forever.

I agree

I am not sure

I disagree

I do not care


☐

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15. I like to spend time outdoors.

I agree

I am not sure

I disagree

I do not care


☐

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☐

39904921 CURR HIST



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END OF PART B

PLEASE PUT YOUR PENCILS DOWN

DO NOT CHECK YOUR ANSWERS TO PART B

THANK YOU FOR COMPLETING THE
GRADE 3 SCIENCE ACHIEVEMENT TEST

DO NOT MAKE

ANY MARKS

ON THIS PAGE



LB 3054 C2 D332 1983
Achievement test.

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SCHOOL: _____

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CITY/TOWN: _____

FOR PURPOSES OTHER THAN THOSE AUTHORIZED AND

DATE OF BIRTH: _____

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DO NOT WRITE IN THIS AREA